

## Current Temperature Status and Heat Wave Warning

Dated: 16<sup>th</sup> April, 2024

Time of Issue: 1630 Hrs IST

### ♦ Observed Temperature Scenario:-

#### Maximum Temperature & its departure (Yesterday) (Annexure 1):-

- Yesterday, maximum temperatures were in the range of 38-40°C over many places over Gangetic West Bengal, Telangana, Coastal Andhra Pradesh & Yanam and Rayalaseema; at a few places over Gujarat state, Madhya Maharashtra, Marathwada, North Interior Karnataka, East Uttar Pradesh, Bihar, Jharkhand and Odisha; at isolated places over West Uttar Pradesh, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. These were above normal by 2-3° C at isolated places over these areas.
- **Yesterday's Highest Maximum Temperature on Plains:** 43.0°C at Nandyal (Rayalaseema).
- **Markedly above normal (5.1°C or more):-** NIL.
- **Appreciably above normal (3.1°C to 5.0°C):-** At a few places over Gangetic West Bengal, Odisha and Saurashtra & Kutch; at isolated places over Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- **Above normal (1.6°C to 3.0°C):-** at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and South Interior Karnataka; at a few places over Bihar, Jharkhand, Telangana and Madhya Maharashtra; at isolated places over Arunachal Pradesh, East Uttar Pradesh, Chhattisgarh, Gujarat Region, Coastal & North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

#### Minimum Temperature & its departure (Today) (Annexure 2):-

- **Markedly above normal (5.1°C or more):-** At isolated places over Madhya Maharashtra.
- **Appreciably above normal (3.1°C to 5.0°C):-** At many places over Bihar; at a few places over Sub-Himalayan West Bengal & Sikkim.
- **Above normal (1.6°C to 3.0°C):-** At most places over Arunachal Pradesh, Assam & Meghalaya, Jharkhand and Gujarat state; at many places over East Uttar Pradesh, Vidarbha and North Interior Karnataka; at isolated places over Haryana-Chandigarh-Delhi, Rajasthan, Madhya Pradesh, Odisha, Konkan & Goa, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.

♦ **Heat wave conditions:-** Yesterday, Heat Wave conditions prevailed in isolated pockets over coastal Odisha.

♦ **Warm night conditions:-** NIL.

♦ **Percentile Temperature (Annexure 3) :-**

♦ **Temperatures Recorded at 1430 Hours IST of Today, the 16<sup>th</sup> April, 2024 (Annexure 4) :-**

- Kurnool (Rayalaseema) recorded the highest temperature of 42.4°C

♦ **Wind Speed & Relative Humidity Recorded at 1430 Hours IST of Today (Annexure 5) :-**

♦ **Maximum Temperatures Forecast :-**

- Gradual rise in maximum temperatures by 2-4°C very likely over Central, East & south peninsular India during next 3 days and no significant change thereafter.
- Gradual rise in maximum temperatures by 2-3°C very likely over Maharashtra during next 2 days and fall by 2-3°C thereafter.
- No significant change in maximum temperatures very likely over rest parts of the country.

## Hot Weather Warnings for Next 5 Days

### DAY-1:-

- ❖ Hot and humid weather very likely to prevail over coastal areas of Gujarat, Gangetic West Bengal, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ Heat wave very likely to prevail in isolated pockets over Gangetic West Bengal, Odisha, north Konkan, Saurashtra & Kutch.
- ❖ Warm Night very likely to prevail in isolated pockets over Madhya Maharashtra.

### DAY-2:-

- ❖ Hot and humid weather very likely to prevail over coastal areas of Gujarat, Gangetic West Bengal, Coastal Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- ❖ Heat wave very likely to prevail in isolated pockets over Gangetic West Bengal, Odisha, north Konkan, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam and Telangana.
- ❖ Warm Night very likely to prevail in isolated pockets over Odisha and Madhya Maharashtra

### DAY-3:-

- ❖ Hot and humid weather very likely to prevail over coastal areas of Gujarat, Gangetic West Bengal, Bihar, Coastal Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal.
- ❖ Heat wave very likely to prevail in isolated pockets over Odisha, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam and Telangana.
- ❖ Warm Night very likely to prevail in isolated pockets over Odisha and Madhya Maharashtra.

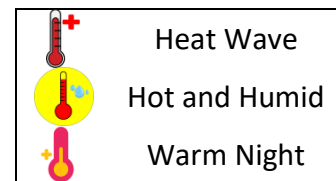
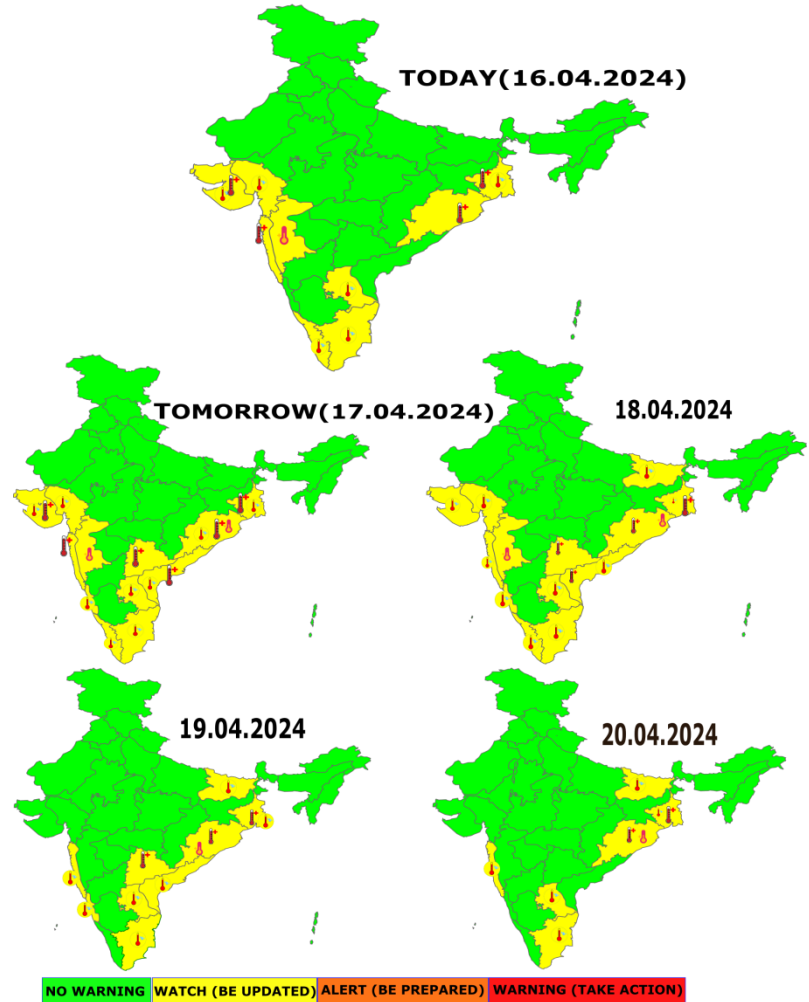
### DAY-4:-

- ❖ Hot and humid weather likely to prevail over Gangetic West Bengal, Bihar, Coastal Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal.
- ❖ Heat wave likely to prevail in isolated pockets over Gangetic West Bengal, Odisha and Telangana.
- ❖ Warm Night likely to prevail in isolated pockets over Odisha.

### DAY-5:-

- ❖ Hot and humid weather likely to prevail over Gangetic West Bengal, Bihar, Rayalaseema, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal.
- ❖ Heat wave likely to prevail in isolated pockets over Gangetic West Bengal and Odisha.
- ❖ Warm Night likely to prevail in isolated pockets over Odisha.

## 5 DAYS HOT WEATHER WARNING MAP

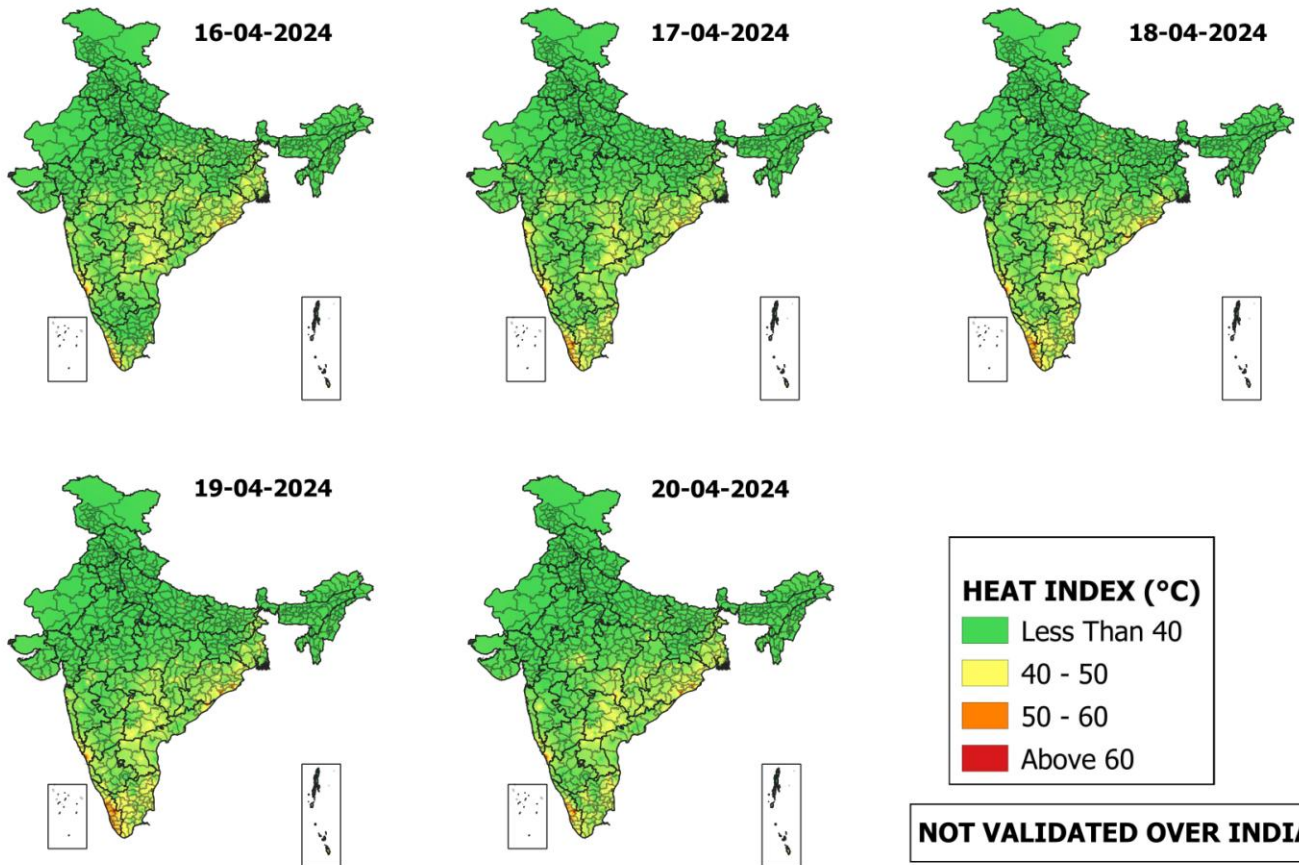


## IMPACT & ACTION SUGGESTED:

### Yellow alert Areas:

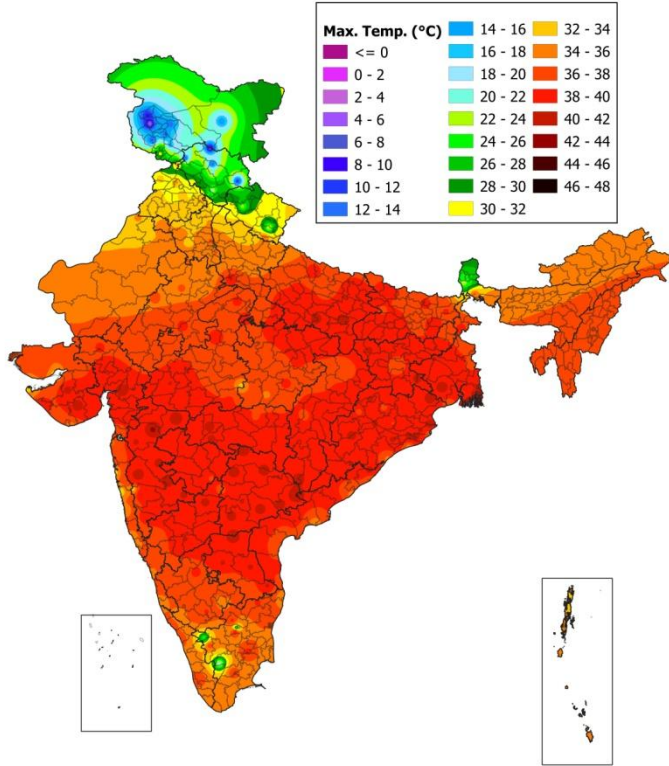
1. Moderate temperature, Heat is tolerable for general public but moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
2. Avoid heat exposure, Wear light weight, light coloured, loose, cotton clothes, Cover your head, Use a cloth, hat or umbrella.

## HEAT INDEX (EXPERIMENTAL FORECAST) DATED 16-04-2024

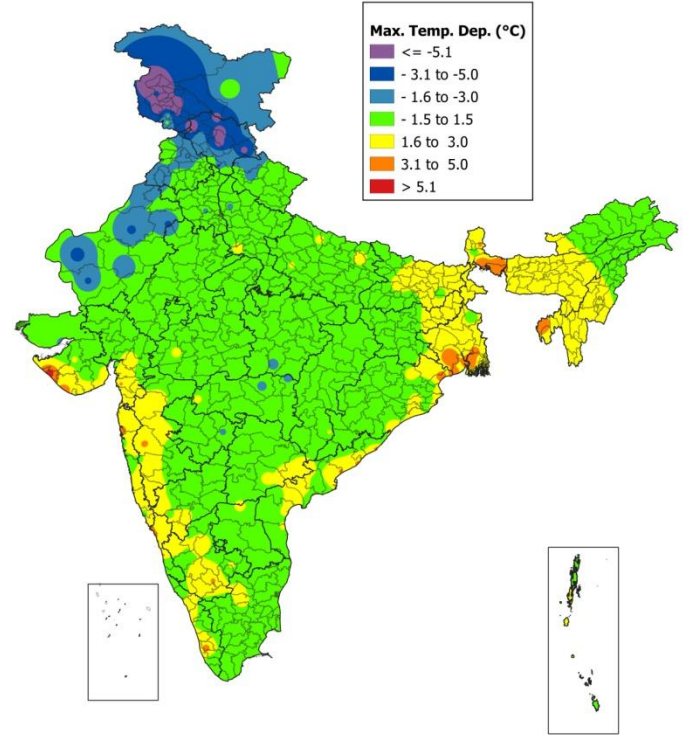


Annexure 1

Maximum Temperature Dated 15/04/2024



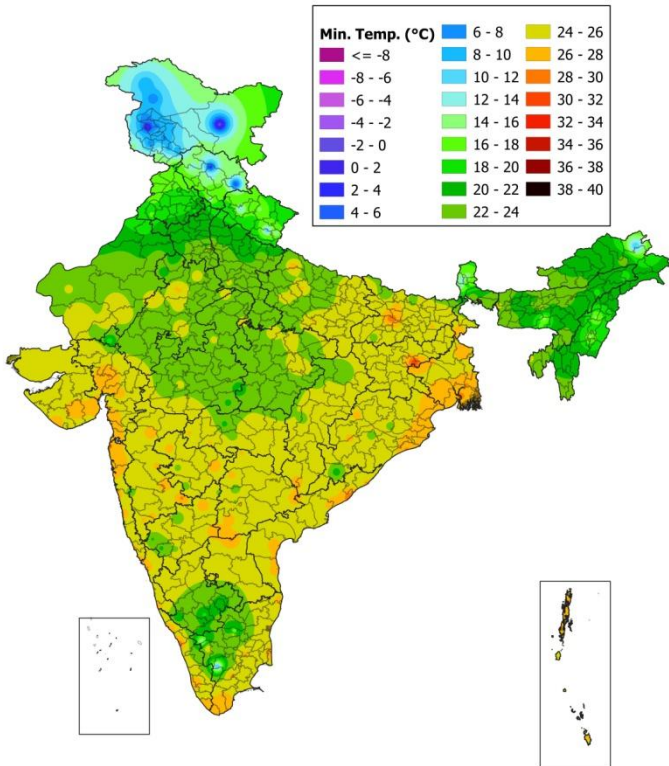
Max Temperature Departure Dated 15/04/2024



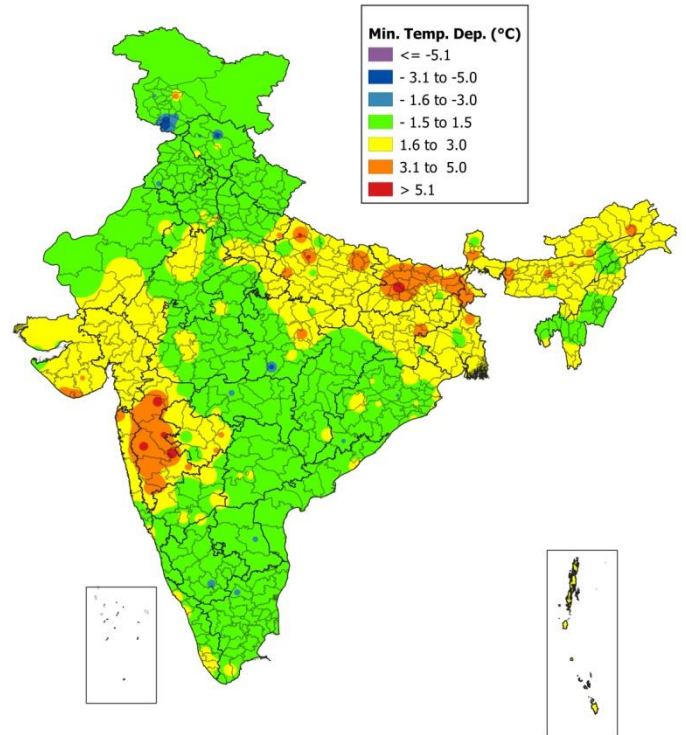


## Annexure 2

**Minimum Temperature Dated 16/04/2024**

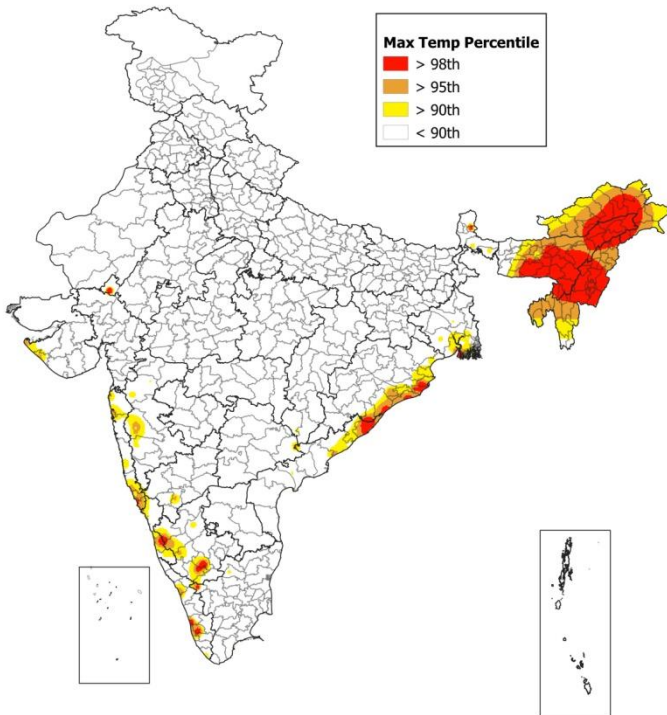


**Min Temperature Departure Dated 16/04/2024**

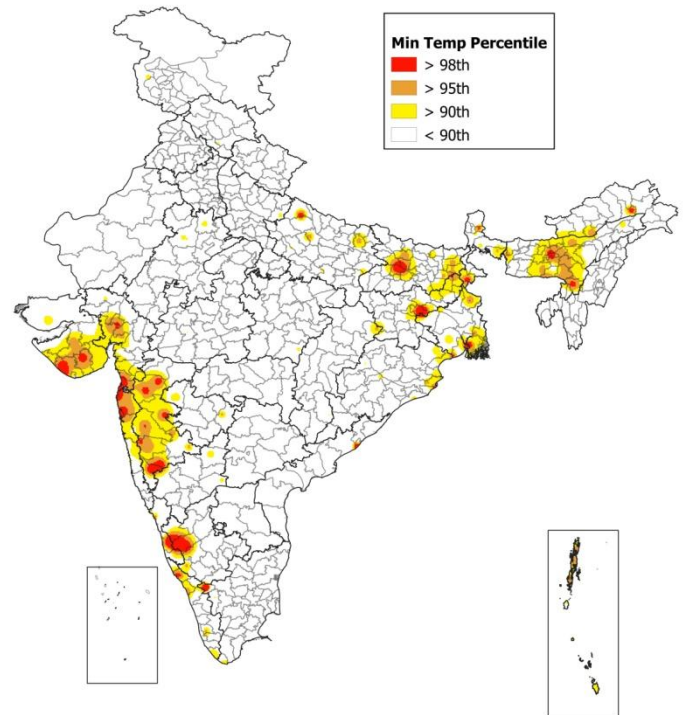


Annexure 3

**Max Temp Percentile Dated 15/04/2024**

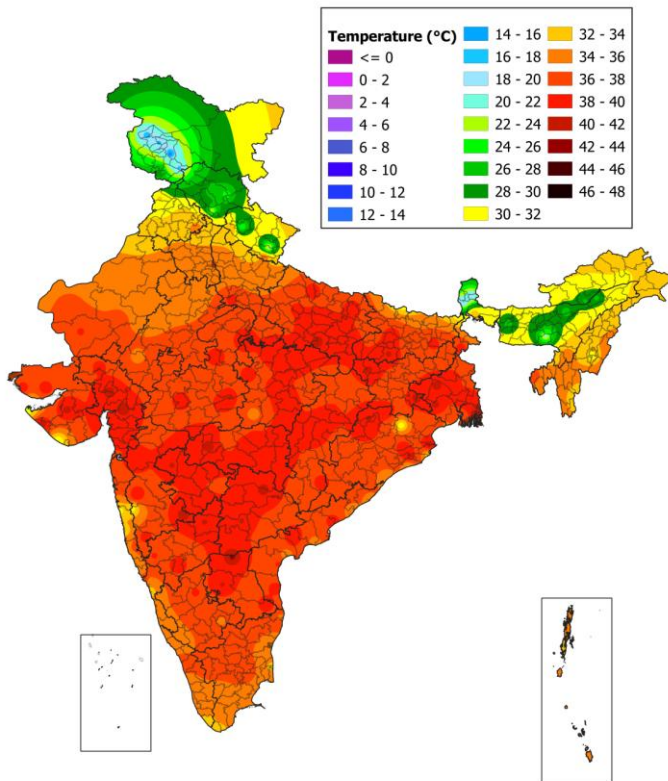


**Min Temp Percentile Dated 16/04/2024**



## Annexure 4

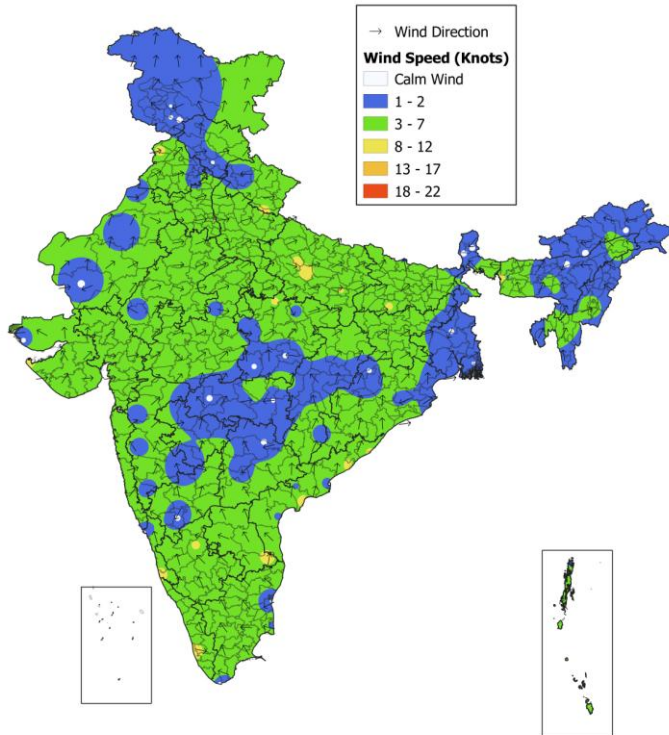
Observed Temperature at 1430 hrs IST Dated 16/04/2024



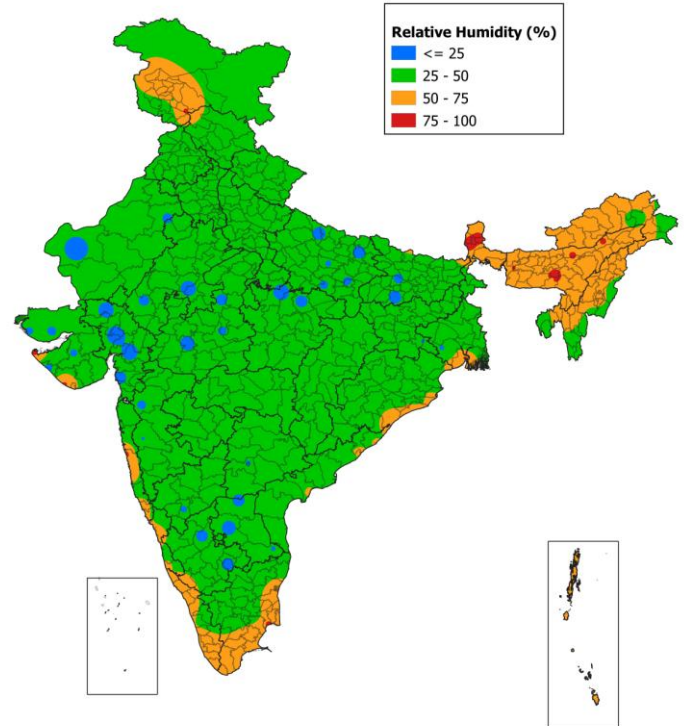
NA



**Wind Map at 1430 hrs IST Dated 16/04/2024**



**Relative Humidity at 1430 Hrs IST Dated 16/04/2024**



For Districtwise heat wave warning visit:

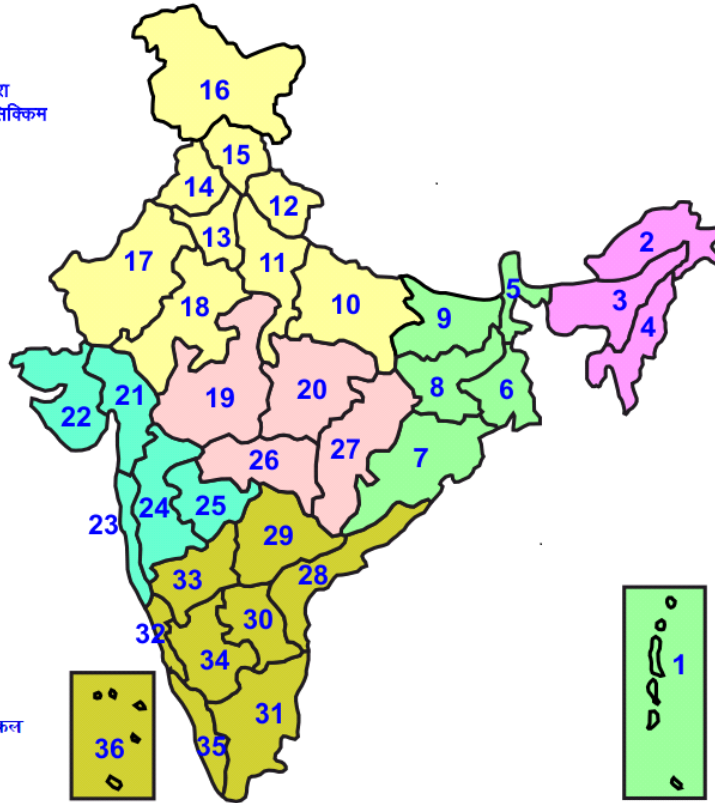
<https://mausam.imd.gov.in/responsive/districtWiseHeatwaveWarning.php>

For GIS Based Heat Wave Warning visit:

[http://103.215.208.18/dwr\\_img/GIS/heatwave.html](http://103.215.208.18/dwr_img/GIS/heatwave.html)

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

### WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

When maximum temperature of a station reaches  $\geq 40^\circ \text{C}$  for plains and  $\geq 30^\circ \text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^\circ \text{C}$  to  $6.4^\circ \text{C}$ .

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^\circ \text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^\circ \text{C}$ .

Severe Heat Wave: When actual maximum temperature  $\geq 47^\circ \text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^\circ \text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^\circ \text{C}$

When maximum temperature remains  $40^\circ \text{C}$

Warm Night: When minimum temperature departure  $4.5^\circ \text{C}$  to  $6.4^\circ \text{C}$ .

Severe Warm Night: When minimum temperature departure  $> 6.4^\circ \text{C}$ .